

**Chief General Manager (INDEG)  
Oil India Limited  
Duliajan-786602, Assam  
(EmailID:[indeg@oilindia.in](mailto:indeg@oilindia.in))**

**Ref : INDEG/OIL/EOI/07/116/Phase VI/2022-23**

**19.04.2022**

Honourable Prime Minister has said, "Aatmanirbhar Bharat is not about being self-contained or being closed to the world, it is about being self-sustaining and self-generating.

In order to propagate above views of Honourable Prime Minister, "Aatmanirbhar Bharat Abhiyan" has been launched. Oil India Limited (OIL) is committed to take forward vision given in "Aatmanirbhar Bharat Abhiyan" for Import substitution of items/services required by OIL.

Interested companies are requested to send their Expression of Interest as per format enclosed to INDEG Department of OIL on Email ID: [indeg@oilindia.in](mailto:indeg@oilindia.in).

**Vendors may send their Expression of Interest as under :**

**For item 1 - by 30<sup>th</sup> June , 2022.**

**For item 2 – by 20<sup>th</sup> May , 2022.**

(Please type on your Letter Head )

To  
**Chief General Manager (INDEG)**  
Oil India Limited  
Duliajan-786602  
Assam  
(Email ID : [indeg@oilindia.in](mailto:indeg@oilindia.in))

Ref. No.....

Date :

**Expression of Interest  
(For Import substitution)**

1. Company Details

1	Company Name	
	Whether manufacturer . If not , whether dealer, distributor etc.	
2	Location	
3	Address	
4	Contact Person	
5	E-mail ID	
6	Mobile/Cell Phone No	
7	Product Proposed for Development	
8	Quantity Offered for Field Trial (Based on field requirement, actual quantity to be decided)	
9	Delivery Schedule	
10	Estimated Price of the Product / Unit	
11	Have you supplied this item to Indian Oil & Gas Companies (names of companies)	

2. Details with copies of relevant documents

1	Details of infrastructure available
2	Manpower details
3	Equipment, Machineries & testing details available
4	Existing product details
5	Copy of last two years Audited Balance Sheet of the Company
6	Copy of company Incorporation Certificate along with Memorandum of Association (MOA) / Articles of Association (AOA) OR Copy of partnership deed in case of partnership company
7	Copy of GST Registration Certificate
8	Copy of PAN Card
9	Copy of MSME Certificate, if any
10	Copy of NSIC Certificate, if any

Name : ..... Signature ..... Designation.....

### Items/Service List

Sl. no.	ITEM DESCRIPTION
1	Nano-Graphene based Lubricant
2	Evacuation and cleaning of Crude Oil storage Tank bottom sludge by Robotic process – 2 Nos. tanks

The Scope of Work of Item – 2 is as under :

#### **Scope of Work for Evacuation and Cleaning of Tank Bottom Sludge of Crude Oil Storage Tanks by Robotic Process**

Tank No- 8 & 9A at CTF – Duliajan , District – Dibrugarh , Assam	
a) Type	External Floating Roof
b) Capacity	10000 KL
c) Dimensions	Height: 10.97 M & Diameter:36.6 Meter
d) Tank Heating Coil	The Tank has inbuilt 100 MM (4”) NB Heating /Steam Coil(s) inside the tank (at an approximate height of 200 MM from the tank bottom plates) for heating of the Tank Contents. (Copy of Drawing No: OIL-5742 attached).
e) Estimated Tank Bottom Sludge (Per Tank)	1500 CuM Note: The actual quantity of the tank bottom sludge to be removed shall be jointly estimated by OIL’s representative and Contractor / Contractor’s Representative before starting of the job by taking tank dips and payments shall be made as per actual sludge volume only.
f) Scope of Work	
<p><b>A. General:</b></p> <ol style="list-style-type: none"> <li>1. The offered Robotic process should evacuate at least 90% of the Tank Bottom sludge from the Tank.</li> <li>2. There must not be any requirement of “Man Entry” inside the Tank till 90% of Tank Bottom Sludge is evacuated.</li> <li>3. All the equipment required go inside the tank (ie: Zone-0) should have to be duly ATEX Zone-0 Certified.</li> <li>4. Any equipment required to be installed inside the Tank Dyke wall should have to be duly ATEX Zone-0 Certified.</li> <li>5. Any equipment for Controlling / Monitoring the process shall have to be installed out side the tank dyke wall.</li> <li>6. Crude Oil, if required as solvent shall be supplied by OIL. However, the estimated amount of solvent required for Sludge Removal to be indicated by the bidder along with the offer. The crude oil required for the process shall be supplied by OIL, with an arrangement for proper measurement and custody transfer.</li> <li>7. The sludge evacuated from the Tank has to transferred to OIL’s Sludge Processing Plant located near OIL’s Dikom OCS approximately 50 KMs away from Duliajan. The requisite Tankers for the job shall have to be arranged by the Contractor. The mandatory approval from SPCB for under the Provision of the Hazardous and Other Wastes (Management &amp; Transboundary Movement) Rules, 2016 for Transportation of the Sludge shall have to be obtained by the Contractor. (Optional Item)</li> <li>8. Provisioning of all requisite power supply (DG Sets) for operation of the Sludge Removal Plant, Nighttime illumination of the plant etc. shall be under Contractor’s Scope.</li> <li>9. All piping job required for the job shall be under the Contractor’s Scope.</li> <li>10. All equipment, manpower, consumable etc required for the job shall be under the scope of the Contractor.</li> <li>11. The job shall be treated as successful and complete upon achieving of ZERO LEL reading all through out the tank.</li> <li>12. Water if required for the job shall be supplied by OIL as Free Issue Item.</li> </ol>	

SI No	Description of Work	Unit	Qty
10	<b>Mobilization for Sludge Removal:</b> The job involves transportation of Plant and Machinery from Contractor's premises to CTF, Duliajan. The contractor to carry out installation and commissioning of Plant and Machinery along with all associated piping to make the plant ready for operation. All Civil Engg. Works shall be under the Contractor's Scope.	Job	01
20	<b>Erection of Barricade Wall:</b> Erection of Barricade Wall around the Tank Bundh area for isolation of the tank. The job involves erection of 6 M High X 240 M (approx.) temporary wall of CGI sheets. All materials required for the job to be supplied by the Contractor.	Job	01
30	<b>Isolation of the tank:</b> Dismantling of all the valves and connections associated with the tank, to isolate the tank from the system as per the advice of OIL's representative.	Job	01
40	<b>Digging / Construction of pit:</b> Digging of one pit of size: 10m x 20m x 2 m (Approx.) for storage of wax, sludge etc. removed from the tank. The exact location for digging shall be shown by OIL's representative. NB: I. This job is an optional job. OIL at its discretion reserves the right to engage the Contractor's services for the said item. II. This job shall have to be taken up only if OIL does not provide Pit(s) for storage of the Sludge to be removed from the Tank.	M3	400
50	<b>Laying of HDPE sheet:</b> Laying of HDPE sheet inside the walls of the pit dug/ constructed under item no: 50. All the items required for the same to be supplied by the Contractor. NB: I. Specification of the HDPE sheet to be used should be as per IS 15351: 2008 or equivalent. II. This job is an optional job. OIL at its discretion reserves the right to engage the Contractor's services for the said item. III. This job shall have to be taken up only if item no 50 is executed or the Pit(s) provided by OIL does not have the requisite HDPE sheet lining.	M2	320
60	<b>Sludge Removal by ROBOTIC PROCESS:</b> The job involves: Removal of Tank Bottom Sludge by suitable ROBOTIC process wherein "MAN ENTRY" is NOT required for removal of at least 90% of Tank Bottom Sludge. Remainder sludge (if any) may be removed manually by scrapping, water jetting or any other suitable means to make the tank HYDROCARBON FREE (0% LEL Reading), so that HOT JOB can be carried out inside the tank. The job also involves thorough cleaning of inside walls and bottom surfaces of the tank, bottom surfaces of the tank roof/pontoon, heating coils, Articulated Roof Drain Piping, supporting structures inside the tank etc., so that no trace of oil is left inside the tank and 0% LEL Reading is achieved. NB: a) The offered Robotic process should evacuate at least 90% of the Tank Bottom sludge from the Tank. b) There must not be any requirement of "Man Entry" inside the Tank till 90% of Tank Bottom Sludge is evacuated. c) All the equipment required go inside the tank (ie: Zone-0) should have to be duly ATEX Zone-0 Certified. d) Any equipment required to be installed inside the Tank Dyke wall should have to be duly ATEX Zone-0 Certified. e) Any equipment for Controlling / Monitoring the process shall have to be installed out side the tank dyke wall.	M3	1500

	<p>f) Crude Oil, if required as solvent shall be supplied by OIL. However, the estimated amount of solvent required for Sludge Removal to be indicated by the bidder along with the offer. The crude oil required for the process shall be supplied by OIL, with an arrangement for proper measurement and custody transfer.</p> <p>g) The sludge evacuated from the Tank has to be transferred to OIL's Sludge Processing Plant located near OIL's Dikom OCS approximately 50 KMs away from Duliajan. The requisite Tankers for the job shall have to be arranged by the Contractor. The mandatory approval from SPCB for under the Provision of the Hazardous and Other Wastes (Management &amp; Transboundary Movement) Rules, 2016 for Transportation of the Sludge shall have to be obtained by the Contractor. (Optional Item)</p> <p>h) Any other specific requirement from OIL's end to be indicated by the bidder along with the offer.</p> <p>i) All the units shall be built to comply with all applicable safety standards for hazardous and contaminated substances.</p>		
70	<b>Area Cleaning:</b> Cleaning of crude oil sludge etc. from outside drains, oil / water separators and from inside the tank bundh/dyke areas and transfer it to the OIL designated pit or to the pit mentioned under item no. 50 above. All necessary materials like sand etc. shall have to be arranged by the Contractor.	LSM	1
80	<b>Cleaning, Hooking up, Box-up and Commissioning of the Tank:</b> Cleaning of the tank after completion of all the work up to the satisfaction of the OIL's representative and hooking up of all the valves and connections associated with the tank (which were disconnected vide item no 40). Boxing up of the tank with supply of all new gaskets suitable for crude oil application for all nozzle and connection of all pipes and commissioning of the tank.	Job	01
90	<b>Dismantling of the Tank Barricade Wall:</b> The job involves Dismantling of the Tank Barricade Wall erected vide item no 20. The contractor must clear the site by removal of all materials to the satisfaction of OIL's representative.	Job	01
100	<b>Demobilization:</b> The job involves demobilization of plant and machinery set up vide Point No: 10 above and back transportation of the same to Contractor's premises. All the free issue items shall have to be recovered (as applicable) and returned to OIL before initiation of demobilization.	Job	01